User's Guide

M3201C M3701C M4201C

Make sure to read the **Important Precautions** before using the product. Keep the User's Guide(CD) in an accessible place for furture reference.

See the label attached on the product and give the information to your dealer when you ask for service.



Safety Precautions

Please read these safety precautions carefully before using the product.

Warning If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

Caution If you ignore the caution message, you may be slightly injured or the product may be damaged



Precautions in installing the Product

/ Warning

- Keep away from heat sources like electrical heaters.
 - Electrical shock, fire, malfunction or deformation may occur.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
 - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- Do not put heavy objects on the product or sit upon it.
 - If the product collapses or is dropped, you may be injured. Children must pay particular attention.
- Do not leave the power or signal cable unattended on the pathway.
 - The passerby can falter, which can cause electrical shock, fire, product breakdown or injury.
- Install the product in a neat and dry place.
 - Dust or moisture can cause electrical shock, fire or product damage.
- If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.
 - If you continue to use without taking proper measures, electrical shock or fire can occur.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord.
 - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- Do not drop an object on or apply impact to the product. Do not throw any toys or objects on the product
 - It can cause injury to human, problem to product and damage the display.

- Make sure the product ventilation hole is not blocked. Install the product in a suitably wide place (more than 10cm from the wall)
 - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat.
- Do not block the ventilation hole of the product by a tablecloth or curtain.
 - The product can be deformed or fire can break out due to overheating inside the product.
- Install the product on a flat and stable place that has no risk of dropping the product.
 - If the product is dropped, you may be injured or the product may be broken.
- Install the product where no EMI occurs.
- Keep the product away from direct sunlight.
 - The product can be damaged.



Safety Precautions



Electrical Power Related Precautions

Marning

- Make sure to connect the power cable to the grounded current.
 - You may be electrocuted or injured.
- Use the rated voltage only.
 - The product can be damaged, or you may be electrocuted.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
 - It can cause electric shock.
- Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet.

 Use a power bar with a grounding terminal designed for exclusive use with the computer.
 - A fire can break out due to overheating.
- Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.
 - You may be electrocuted due to excess moisture.
- If you don't intend to use the product for a long time, unplug the power cable from the product.
 - Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- Fix the power cable completely.
 - If the power cable is not fixed completely, a fire can break out.
- Hold the plug when pulling out the power cable. Do not bend the power cord with excessive force or put heavy objects on the power cord.
 - The power line can be damaged, which may cause electric shock or fire.
- Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.
 - You may be electrocuted.
- The power supply cord is used as the main disconnection device. Ensure that the socket-outlet is easily accessible after installation.
- Main power breaker is the power cord and this breaking device must be located at a location where it is easy to operate.



- Do not unplug the power cord while the product is in use.
 - Electrical shock can damage the product.



Precautions in Moving the Product

Marning

- Make sure to turn off the product.
 - You may be electrocuted or the product can be damaged.
- Make sure to remove all cables before moving the product.
 - You may be electrocuted or the product can be damaged.

Safety Precautions

A Caution

- Do not shock the product when moving it.
 - You may be electrocuted or the product can be damaged.
- Do not dispose the product-packing box. Use it when you move.
- Make the panel face forward and hold it with both hands to move.
 - If you drop the product, the damaged product can cause electric shock or fire. Contact with the service center for repair.

Precautions in Using the Product

Marning

- Do not disassemble, repair or modify the product at your own discretion.
 - Fire or electric shock accident can occur.
 - Contact the service center for check, calibration or repair.
- When cleaning the brown tube surface, unplug the power cord and scrub with soft cloth to prevent scratching. Do not clean with a wet cloth.
- Keep the product away from water.
 - Fire or electric shock accident can occur.

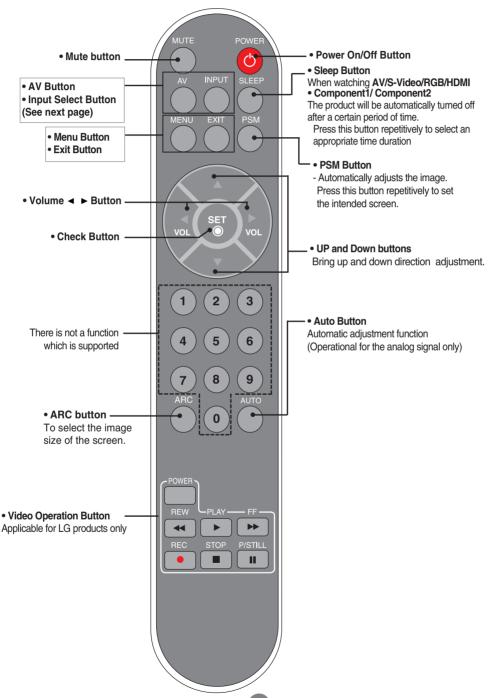
⚠ Caution

- Do not put or store inflammable substances near the product.
 - There is a danger of explosion or fire due to careless handling of the inflammable substances.
- When cleaning the brown tube surface, unplug the power cord and scrub with soft cloth to prevent scratching. Do not clean with a wet cloth.
 - The water can sink into the product, which can cause electric shock or serious malfunction.
- Take a rest from time to time to protect your vision.
- Keep the product clean at all times.
- Take a comfortable and natural position when working with a product to relax the muscles.
- Take a regular break when working with a product for a long time.
- Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.
- Keep the proper distance from the product.
 - Your vision may be impaired if you look at the product too closely.
- Set the appropriate resolution and clock by referring to the User's Guide.
 - Your vision can be impaired.
- Use authorized detergent only when cleaning the product. (Do not use benzene, thinner or alcohol.)
 - Product can be deformed.

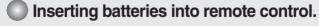
On Disposal

- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
 Disposal of this product must be carried out in accordance to the regulations of your local authority.





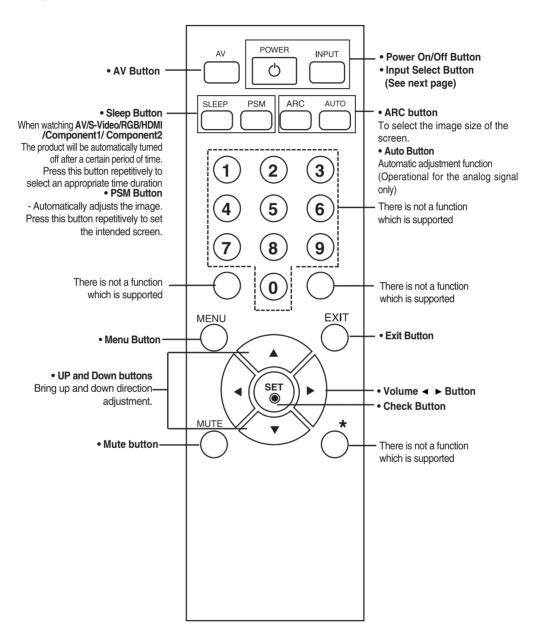


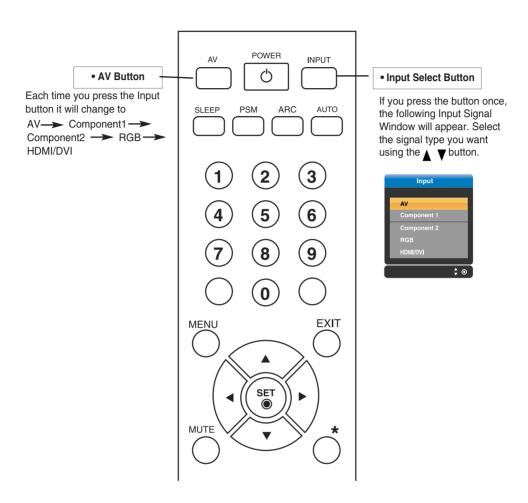


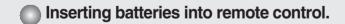


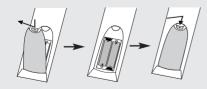
- 1. Take out the battery cap.
- 2. Insert the batteries with correct polarity (+/-).
- 3. Close the battery cap.
- Dispose of used batteries in the recycle bin to prevent environmental pollution.

Name of the Remote Control Buttons(B type)





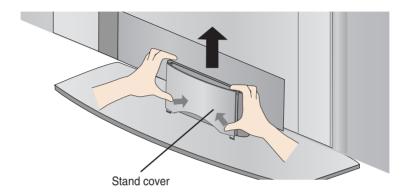




- 1. Take out the battery cap.
- 2. Insert the batteries with correct polarity (+/-).
- 3. Close the battery cap.
 - Dispose of used batteries in the recycle bin to prevent environmental pollution.

To arrange cables in order

- * Applicable only for models that support the stand
- 1. Disassemble the **stand cover**. The cover may be easily disassembled by pressing up on the base as shown in the figure.

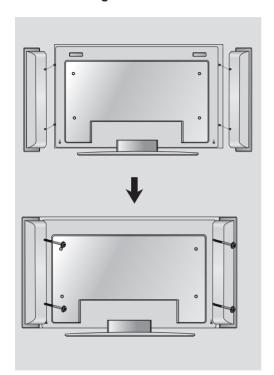


2. After connecting the cables, correctly position the stand cover into the holes on the stand. If securely connected, you will hear the latch click into place.

Connecting the Speakers

* Applicable only for models that support the speakers

Use the screws to secure the speakers on the rear side of the product as shown in the below figure.

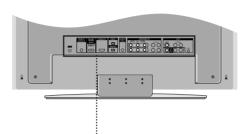


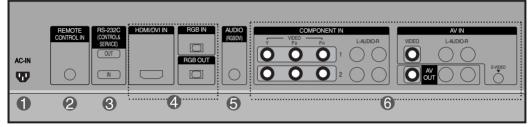


When the speaker is installed.

Name and Function of the Parts

- * The product image in the user's guide could be different from the actual image.
- Rear View





- Power Connector : Connect the power cord
 - AC-IN AC
 - Power connector and image may differ according to model.
- Wired Remote Control Port
- RS-232C Serial Ports
- 4 RGB, HDMI/DVI Ports
- PC Sound Jack
 : Connect the audio cable to the *LINE OUT jack of the PC sound card.
- AV Ports

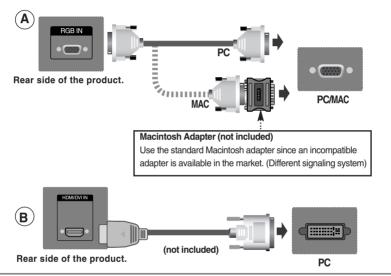
*LINE OUT

A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume.

If the Audio Out of the PC sound card supports both Speaker Out and Line Out, convert to Line Out using the card jumper of the program (Refer to the Sound Card Manual).

■■■ When Connecting to your PC

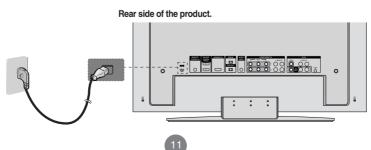
- First of all, see if the computer, product and the peripherals are turned off. Then, connect the signal input cable.
 - (A) When connecting with the D-Sub signal input cable.
 - (B) When connecting with the HDMI to DVI signal input cable (not included).



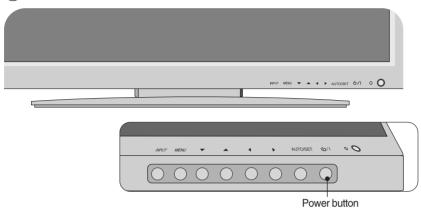
Connect the Audio cable.



Connect the power cord.



(1) Turn on power by pressing the power button on the product.



- 2 Turn on the PC.
- Select an input signal.
 Press the INPUT button on the remote control to select the input signal.

Or, press the INPUT button at the front side of the product.



- (A) When connecting with a D-Sub signal input cable.
 - Select RGB: 15-pin D-Sub analog signal.
- B) When connecting with a HDMI to DVI signal input cable.
 - Select HDMI/DVI: HDMI to DVI Digital signal.



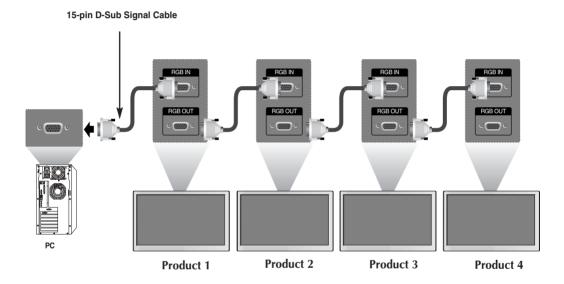


- How to connect to two computers.
 Connect the signal cables (HDMI to DVI and D-Sub) to each computer.
 Press the INPUT button in a remote control to select the computer to use.
- Directly connect to a grounded power outlet on the wall or a power bar with a ground wire.

Watching RGB Outputs

Use this function when displaying ANALOG RGB inputs of a PC to the other product.

To use different products connected to each other
 Connect one end of the signal input cable(15-pin D-Sub Signal Cable) to the RGB OUT connector of product 1 and connect the other end to the RGB IN connector of other products.

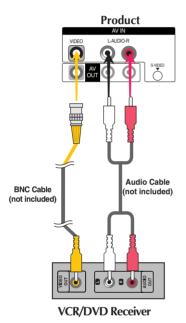




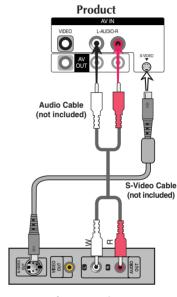
When multi-connecting in/out cascade format, cables to be less damaged are recommended.
 We recommend that you should use cable distributor.

■■■ When watching VCR / DVD

- Connect the video cable as shown in the below figure and then connect the power cord (See page 11).
 - A) When connecting with a BNC cable.
 - Connect the input terminal with a proper color match.



- (B) When connecting with a S-Video cable.
 - · Connect to the S-Video input terminal to watch high image quality movies.



VCR/DVD Receiver

Select an input signal. Press the INPUT button on the remote control to select the input signal.

Or, press the INPUT button at the front side of the product.

- When connecting with an BNC cable.
 - Select AV.
- (B) When connecting with an S-Video cable.
 - · Select AV.



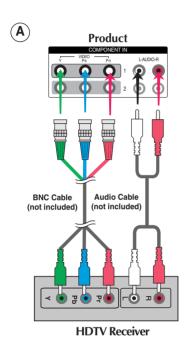


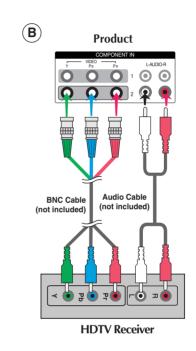


• In case the BNC cable is connected simultaneously as S-Video cable is connected, S-Video cable is

■■■ When watching HDTV/DVD(480p/576p/720p/1080i/480i/576i)

- Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page 11).
 - Connect the input terminal with a proper color match.

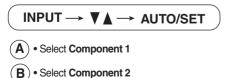




2 Select an input signal.

Press the INPUT button on the remote control to select the input signal.

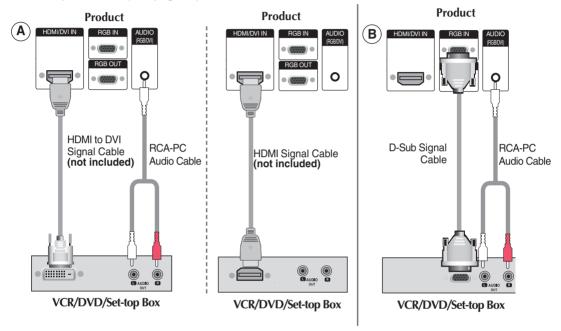
Or, press the INPUT button at the front side of the product.







- When watching HDMI/DVI/RGB from the VCR/DVD/Set-top Box (480p/576p/720p/1080i)
- Connect the video/audio cable as shown in the below figure and then connect the power cord (See page 11).



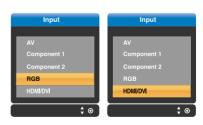
Select an input signal.

Press the INPUT button on the remote control to select the input signal.

Or, press the INPUT button at the front side of the product.

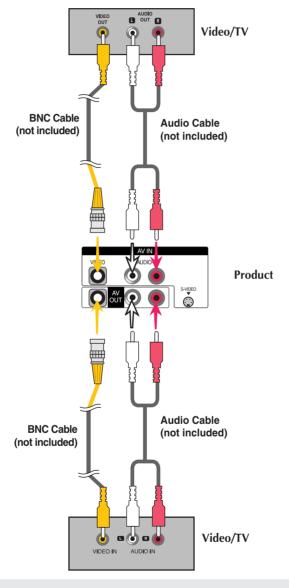


- (A) When connecting with a HDMI to DVI signal input cable. When connecting with a HDMI signal input cable.
 - Select HDMI/DVI
- **B** When connecting with a D-Sub signal input cable.
 - Select RGB



■■■ Watching AV Outputs

• When you set the input signal of the main screen as 'AV (CVBS)', you can transmit the signal that you're watching to the AV output terminal.



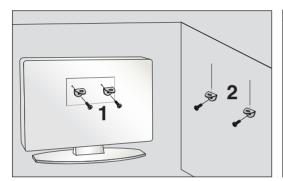


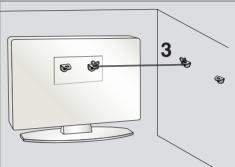
When multi-connecting in/out cascade format, cables to be less damaged are recommended.
 We recommend that you should use cable distributor.

Attaching the product to a wall

- * This feature is not available for all models.
- Set it up close to the wall so the product doesn't fall over when it is pushed backwards.

The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product doesn't fall over when it is pulled in the forward direction. It will prevent the product from falling forward and hurting people. It will also prevent the product from damage caused by fall. Please make sure that children don't climb on or hang from the product.



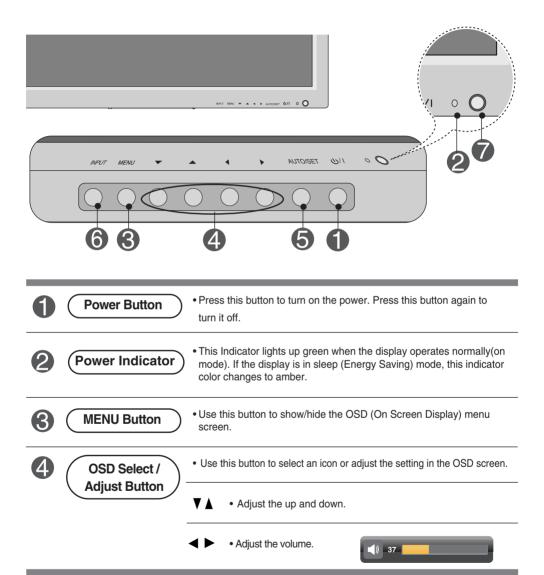


- 1. Use the braket and the bolt to fix the product to the wall as shown in the picture.
- 2. Secure the bracket with the bolt(not provided as parts of the product, must purchase separately) on the wall.
- 3. Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

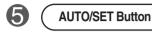


- When moving the product to anoher place undo the ropes first.
- Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.
- To use the product safely make sure that the height of the braket that is mounted on the wall is same as that of the product.

Name of the Buttons in the Screen Adjustment Unit



Name of the Buttons in the Screen Adjustment Unit



[For PC Analog signal]

Auto in progress For opimal display change resolution to 1360 X 768

[When XGA Mode is active and 1360 X768 is selected]

Auto in progress



INPUT → **V A** → AUTO/SET

Select the input signal

AV Composite Video, Separate Video

Component 1 HDTV, DVD Component 2 HDTV, DVD

RGB 15-pin D-Sub analog signal

HDMI/DVI Digital signal





IR Receiver

• The unit that receives the signal from the remote control.

OSD Menu

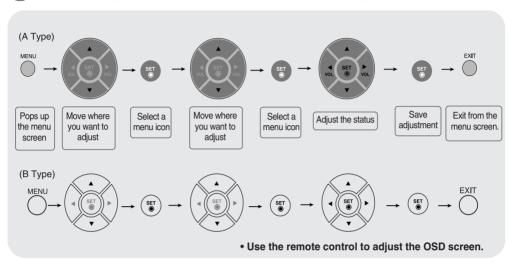
Icon	Function Description				
PICTURE	Adjusts screen brightness, contrast and color that you prefer.				
SOUND	Adjusts the audio function.				
TIME	Adjusts the timer function.				
SPECIAL SPECIAL	Adjusts the screen status according to the circumstances.				
SCREEN SCREEN	Adjusts the screen video.				



OSD(On Screen Display)

The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.

How to adjust the OSD (On Screen Display) screen



- Press the **MENU** Button, then the main menu of the OSD appears.
- 2 To access a control, use the ▼ ▲ Buttons.
- 3 When the icon you want becomes highlighted, press the SET Button.
- 4 Use the ▼ ▲ ◀ ▶ Buttons to adjust the item to the desired level.
- Accept the changes by pressing the **SET** Button.
- 6 Exit the OSD by pressing the **EXIT** Button.

How to adjust the screen automatically

You need to adjust the screen display when connecting the product to a new computer or changing the mode. Refer to the following section to set an optimal product screen.

Press the AUTO/SET button (**AUTO button** in a remote Control) in the PC analog signal. Then, an optimal screen status will be selected that fits into the current mode.

If adjustment is not satisfactory, you need to adjust screen position, clock and phase in the OSD menu.

[When XGA Mode is active and 1360 X768 is selected]

Auto in progress



Adjusting Screen Color



PSM

The **PSM** function automatically adjusts the screen image quality depending on the AV usage environment.

- Dynamic : Select this option to display with a sharp image.
- Standard : The most general and natural screen display status.
- Mild: Select this option to display with a mild image.
- User1,2: Select this option to use the user-defined settings.



Contrast: Adjust the difference between the light and dark levels in the picture.

Brightness: To adjust the brightness of the screen. **Colour**: To adjust the color to desired level.

Sharpness: To adjust the clearness of the screen.

Tint: To adjust the tint to desired level.

CSM

Selecting a factory setting color set.

- Warm : Slightly reddish white.
 Normal : Slightly bluish white.
 Cool : Slightly purplish white.
- User : Select this option to use the user-defined settings.



Red / Green / Blue Set your own color levels.



If the 'PSM' setting in the PICTURE menu is set to Dynamic, Standard, Mild the subsequent menus will be automatically set.



Adjusting Screen Color

XD is LG Electronics unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

It's not available to use this function in RGB-PC or HDMI/DVI PC modes.

This menu is activated after selecting the **User1** or **User2** of **PSM**.



- Auto: XD is automatically change to Auto.
- Manual: When selecting the Manual, you can adjust the XD Contrast, XD Colour, XD NR, MPEG NR
 - XD Contrast: Optimizing the contrast automatically according to the brightness of the reflection.
 - XD Colour : Adjusting the colors of the reflection automatically to reproduce as closely as possible to the natural colors.
 - XD NR : Removing the noise up to the point where it does not damage the original picture.
 - MPEG NR: You can select MPEG NR to reduce the picture noise which may appear on the screen during watching the AV.

Advanced



- Cinema: (Function works in the following mode AV, Component 480i/576i)
 When you watch the movie, this function adjusts the set to the best picture appearance.
- Black Level: (Function works in the following mode AV(NTSC), HDMI/DVI
 adjusts the contrast and the brightness of the screen using the
 black level of the screen.
 - Low : The reflection of the screen gets brighter.
 - High: The reflection of the screen gets darker.
 - Auto: Realizing the black level of the screen and set it to High or Low automatically. (Europe an version only)

Reset Return to the default settings **PSM**, **CSM**, **XD**, **Advanced** at the factory.



Adjusting the audio function

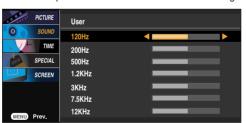


SSM



The best sound tone quality will be selected automatically depending on the video type that you're currently watching.

- Surround MAX: Set the Surround MAX on. This function plays back the mono or stereo sound input
 with the dynamic surround effects. It will provide rich and profound sound tone. If you set the
 Surround MAX on, user audio setting can not be adjusted.
- Flat: The most commanding and natural audio.
- Music: Select this option to enjoy the original sound when listening to the music.
- Movie: Select this option to enjoy sublime sound.
- Sports: Select this option to watch sports broadcasting.
- User: Select this option to use the user-defined audio settings.



AVL To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select On.

Balance Use this function to balance sound from the left and right speakers.

Speaker You can adjust internal speaker status.

If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.

Note

When connected to your computer and the 'SSM' setting in the audio menu is one of Flat, Music, Movie or Sports, the available menus are Balance, AVL and Surround MAX.



Adjusting the timer function



Clock

If the time is on the clock is incorrect, reset the clock manually.

- 1) Press the **MENU** button and then use **▼** ▲ button to select the **TIME** menu.
- 2) Press the ▶ button and then use ▼ ▲ button to select the Clock menu.
- 3) Press the ▶ button and then use ▼ ▲ button to set the hour(00~23).
- 4) Press the ▶ button and then use ▼ ▲ button to set the minutes(00~59).

Off / On time The off time automatically switches the set to standby at the pre-set time.

- 1) Press the **MENU** button and then use ▼ ▲ button to select the **TIME** menu.
- 2) Press the ▶ button and then use ▼ ▲ button to select **Off time** or **On time**.
- 3) Press the ▶ button and then use ▼ ▲ button to set the hour(01~23).
- 4) Press the ▶ button and then use ▼ ▲ button to set the minutes(00~59).
- 5) Press the ▶ button and then use ▼ ▲ button to select **On** or **Off**.

Auto sleep

If Auto sleep is active and there is no input signal, the set switches to Stanby mode automatically after 10 minutes.

- 1) Press the **MENU** button and then use ▼ ▲ button to select the **Auto sleep** menu.
- Press the ► button and then use ▼ ▲ button to select On or Off.



- In the event of power interruption (disconnection or power failure), the clock must be reset.
- Once the on or off time is set, these functions operate daily at the preset time.
- Off time function overrides On time function if they are set to the same time.
- The set must be in standby mode for the On time to work.
- · When On time is operated, input screen is turnd on as it was turned off.

Selecting the options



Language

To choose the language in which the control names are displayed.

Child lock

Use the \P Δ buttons to select **On** or **Off**. The Set can be set up so that it can only be used with the remote control. This feature can prevent unauthorized viewing.

In order to lock the OSD screen adjustment, set the **Child lock** tab to the '**On**' position. In order to unlock it, do the following:

• Push the MENU button on the remote control and set Child lock to the 'Off' position.

ISM Method

A frozen of still picture from a PC/Video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the sets screen for a long period of time.

Normal: If image sticking is never a problem, ISM is not necessary -set to Normal.

White wash: white wash removes permanent images from the screen. (An excessive permanent image may be impossible to clear entirely with white wash.

Orbiter: may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

Inversion: This is function to invert the panel color of the screen. The panel color is automatically inverted every 30 minutes.

Set ID



You can assign a unique **Set ID** NO (name assignment) to each product when several products are connected for display. Specify the number (1~99) using the ▼ ▲ button and exit. Use the assigned **Set ID** to individually control each product using the Product Control Program.

SPECIA

Selecting the options

To use this function

- Must be displayed with various other products.
- Must be in a function that can be connected to RS-232C or RGB Out

Tile mode



It is used to enlarge the screen and also used with several products to view screen.

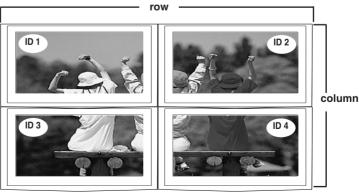
• Tile Mode

Tile mode and choose Tile alignment and set the ID of the current product to set location.

- * Only after pressing the SET button the adjustments made to the settings will be saved.
- Tile mode: row x column (r = 1, 2, 3, 4 c = 1, 2, 3, 4)
- 4 x 4 available.
- Configuration of an integration screen is also available as well as configuration of One by one Display.



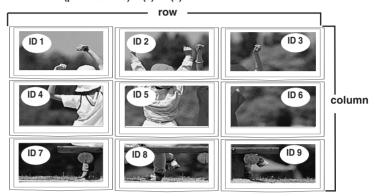
- Tile mode (product 1 ~ 4): r(2) x c(2)





SPECIAL Selecting the options

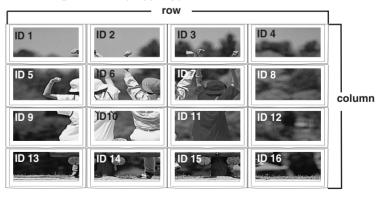
- Tile mode (product 1 ~ 9) : r(3) x c(3)



- Tile mode (product 1 ~ 2): r(2) x c(1)



- Tile mode (product 1 ~16): r(4) x c(4)





Selecting the options



• Tile ID Select the location of the Tile by setting an ID.

• H Size Adjust the horizontal size of the screen taking into account the size of the

bezel.

• V Size Adjust the vertical size of the screen taking into account the size of the bezel.

• H-Position Moving the screen position horizontally.

• V-Position Moving the screen position vertically.

• **Reset** Function to initialize and release Tile.

All Tile setting are released when selecting Tile recall and the screen returns

to Full screen.

Power Indicator

Use this function to set the power indicator on the front side of the product to

On or Off.

If you set Off, it will go off. If you set On at any time, the power indicator will

automatically be turned on.

Logo Light

Use this function to set the Logo Display Lamp on the front side of the product to On

or Off. If you set On, the lamp will automatically be turned on.

XD Demo

Use it to see the difference between XD demo on and XD Demo off. (XD Demo function is not available in RGB PC/ HDMI/DVI PC mode.)



Adjusting Screen CLOCK/PHASE and Position



Auto-config. (RGB PC input only) This button is for the automatic adjustment of the screen position, clock and phase. This function is suitable for analogue signal input only.

Manualconfig. If the picture isn't clear after auto adjustment and especially that characters are still trembling, adjust the picture phase manually.

* It's not available to use Phase, Clock function in RGB DTV, Component, HDMI/DVI DTV.)

Clock To minimize any vertical bars or stripes visible on the screen

background. The horizontal screen size will also change. This function

is suitable for analogue signal input only

Phase To adjust the focus of the display. This item allows you to remove any

horizontal noise and clear or sharpen the image of characters. This

function is suitable for analogue signal input only.

H-Position Moving the screen position horizontally.

V-Position Moving the screen position vertically.

XGA Mode (RGB-PC only). For more improved or better picture quality, select the same mode corresponding to computer resolution.





Adjusting Screen CLOCK/PHASE and Position

ARC To select the image size of the screen.

Spectacle When your AV receives the wide screen signal, it will lead you to

adjust the picture horizontally, in a nonlinear proportion, to fill the entire

screen.

Full When your AV receives the wide screen signal, it will lead you to adjust

the picture horizontally or vertically, in a linear proportion, to fill the entire

screen fully. (Europe version only)

Original When your AV receives the wide screen signal, it will be automatically

changed to picture format to be sent.

4:3 This plcture format is 4 to 3 of general AV.

16:9 You can enjoy the cinema (the picture format of 16:9) or general TV

programme thorough the 16:9 mode.

The screen 16:9 is viewed just like that but the screen 4:3 is magnified to

the left and right so that the screen 16:9 is full.

1:1 This plcture format is 1 to 1 of general AV. (only RGB PC, HDMI/DVI PC)

14:9 You can enjoy the picture format of 14:9 or general AV programme

through the 14:9 mode.

The screen 14:9 is viewed just like that the screen 4:3 is magnified to the

upper/lower and left/right.

Zoom1, 2 You can enjoy the cinema in a vast screen through the Zoom mode.
The screen 4:3 is magnified to the upper/lower and left/right sides so that

screen 16:9 is full. The bottom and top of the picture may be lost.

MODE	AV	Component	HDMI/DVI		RGB	
ARC			DTV	PC	DTV	PC
Spectacle	•	X	X	×	×	X
Full	•	X	X	×	×	×
Original	•	×	X	X	X	X
4:3	•	•	•	×	•	X
16:9	•	•	•	•	•	•
14:9	•	X	X	X	X	X
Zoom1	•	•	•	×	•	×
Zoom2	•	•	•	X	•	×
1:1	X	X	X	•	×	•

Reset

Use this function to reset the product to the factory default.(Manual config. manu only)

Troubleshooting

No image is displayed

- Is the product power cord connected?
- Is the power indicator light on?
- Power is on, power indicator is green but the screen appears extremely dark.
- the power indicator amber?
- Does the 'Out of range' message appear?

Does the 'Check signal cable' message appear?

- See if the power cord is properly connected to the outlet
- See if the power switch is turned on.
- · Adjust brightness and contrast again.
- If the product is in power saving mode, move the mouse or press any key.
- The signal from the PC (video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual.
 - * Maximum resolution
 - 32 / 37 / 42 inch model RGB: 1600 x 1200 @60Hz HDMI/DVI: 1280 x 1024 @60Hz
- The signal cable between PC and product is not connected. Check the signal cable.
- Press the 'INPUT' menu in the remote Control to check the input signal.

'Unknown Product' message appears when the product is connected.

- Did you install the driver?
- Install the product driver, which is provided with the product, or download it from the web site. (http://www.lge.com)
- See if the plug&play function is supported by referring to the video card user manual.

'Controls Locked' message appears.

- The 'Controls Locked' message appears when pressing the Menu button.
- The control locking function prevents unintentional OSD setting change due to careless usage. To unlock the controls, simultaneously press the Menu button and ▶ button for several seconds. (You cannot set this function using the remote control buttons. You can set this function in the product only.)



- * Vertical frequency: To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.
- * Horizontal frequency: The horizontal interval is the time to display one vertical line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

Troubleshooting

The screen image looks abnormal.

- Is the screen position wrong?
- D-Sub analog signal Press the "AUTO" button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu.
- See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel – Display – Setting menu.
- Do thin lines appear on the background screen?
- D-Sub analog signal Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
- Horizontal noise appears or the characters look blurred.
- D-Sub analog signal Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
- The screen is displayed abnormally.
- The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

After-image appears on the product.

- After-image appears when the product is turned off.
- If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screen-saver function.

Troubleshooting

The audio function does not work.

No sound?

- See if the audio cable is connected properly.
- Adjust the volume.
- See if the sound is set properly.
- Select the appropriate equalize sound.
- Adjust the volume.

- Sound is too dull.
- Sound is too low.

Screen color is abnormal.

- Screen has poor color resolution (16 colors).
- Set the number of colors to more than 24 bits (true color)
- Select Control Panel Display Settings Color Table menu in Windows.
- Screen color is unstable or monocolored.
- Check the connection status of the signal cable. Or, re-insert the PC video card.
- Do black spots appear on the screen?
- Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. It is not a malfunction of the LCD.

The product specifications can change without prior notice for product improvement.

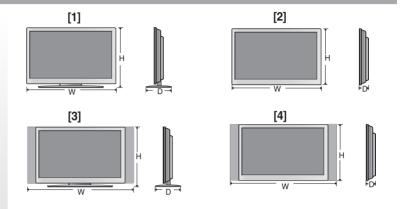
LCD Panel	[32 inch]	32 inches (80.04 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 80.04 cm 0.5025 mm (Pixel Pitch)									
	[37 inch]	37 inches (94.03 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 94.03 cm 0.6000 mm (Pixel Pitch)									
	[42 inch]	42 inches (106.73 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Anti-Glare coating Visible diagonal size: 106.73 cm 0.681 mm (Pixel Pitch)									
Power	[32 inch] Rated Voltage Power Consumption	AC 100-240V~ 50/60Hz 1.5A On Mode : 145W Sleep Mode : ≤ 1W (RGB) / 4W (HDMI/DVI) Off Mode : ≤ 1W									
	[37 inch] Rated Voltage Power Consumption	AC 100-240V~ 50/60Hz 2.0A On Mode : 180W Sleep Mode : ≤ 1W (RGB) / 4W(HDMI/DVI) Off Mode : ≤ 1W									
	[42 inch] Rated Voltage Power Consumption	AC 100-240V~ 50/60Hz 2.5A On Mode : 240W Sleep Mode : ≤ 1W (RGB) / 4W(HDMI/DVI) Off Mode : ≤ 1W									

NOTE

■ Information in this document is subject to change without notice.

The product specifications can change without prior notice for product improvement.

Dimensions &Weight



Width x Height x Depth

[32 inch]

[1] 80.30 cm (31.61 inches) x 54.00cm (21.26 inches) x 18.00 cm (7.09 inches)

[2] 80.30 cm (31.61 inches) x 49.30 cm (19.4 inches) x 9.99 cm (3.93 inches)

[3] 96.40 cm (37.95 inches) x 54.00cm (21.26 inches) x 18.00 cm (7.09 inches)

[4] 96.40 cm (37.95 inches) x 49.30 cm (19.4 inches) x 9.99 cm (3.93 inches)

[37 inch]

[1] 92.80 cm (36.54 inches) x 61.90 cm (24.37 inches) x 22.77 cm (8.96 inches)

[2] 92.80 cm (36.54 inches) x 57.12 cm (22.49 inches) x 11.50 cm (4.53 inches)

[3] 112.9 cm (44.45 inches) x 61.90 cm (24.37 inches) x 22.77 cm (8.96 inches)

[4] 112.9 cm (44.45 inches) x 57.12 cm (22.49 inches) x 11.50 cm (4.53 inches)

[42 inch]

[1] 105.7 cm (41.61 inches) x 70.20 cm (27.64 inches) x 29.45 cm (11.59 inches)

[2] 105.7 cm (41.61 inches) x 65.30 cm (25.71 inches) x 11.91 cm (4.69 inches)

[3] 125.9 cm (49.57 inches) x 70.20 cm (27.64 inches) x 29.45 cm (11.59 inches)

[4] 125.9 cm (49.57 inches) x 65.30 cm (25.71 inches) x 11.91 cm (4.69 inches)

The product specifications can change without prior notice for product improvement.

Dimensions &Weight	Net	
& Weight	[32 inch]	
	[1] 19.4 kg (42.77 lbs)	[2] 16.0 kg (35.27 lbs)
	[3] 21.1 kg (46.52 lbs)	[4] 17.7 kg (39.02 lbs)
	[37 inch]	
	[1] 26.1 kg (57.54 lbs)	[2] 22.0kg (48.50 lbs)
	[3] 30.5 kg (67.24 lbs)	[4] 25.7 kg (56.66 lbs)
	[42 inch]	
	[1] 35.2 kg (77.60 lbs)	[2] 30.8 kg (67.90 lbs)
	[3] 38.0 kg (83.77 lbs)	[4] 33.6 kg (74.07 lbs)

■■■ 32/37/42 inch model

The product specifications can change without prior notice for product improvement.

Video Signal	Max. Resolution	RGB: 1600 X 1200 @60Hz HDMI/DVI: 1280 X 1024 @60Hz – It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB: WSXGA 1360 X 768 @60Hz HDMI/DVI: WSXGA 1360 X 768 @60Hz – It may not be supported depending on the OS or video card type.
	Horizontal Frequency	RGB : 30 - 83 kHz HDMI/DVI : 30 - 72 kHz
	Vertical Frequency	56 - 85 Hz
	Synchronization Type	Separate/Composite/SOG (Sync On Green)/Digital
Input Connector		15-pin D-Sub type, HDMI (digital), S-Video, Composite Video, Component, RS-232C
Environmental Conditions	Operational Condition Storage Condition	Temperature: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$, Humidity: $10\% \sim 80\%$ Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$, Humidity: $5\% \sim 95\%$

* Applicable only for models that support the speakers

Audio	RMS Audio Output Input Sensitivity Speaker Impedance	10W+10W(R+L) 0.7Vrms 8Ω
	Speaker Impedance	812

NOTE

■ Information in this document is subject to change without notice.

PC Mode – Preset Mode

	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	11	VESA 1024 x 768	60.123	75
2	VGA 720 x 400	31.468	70	12	VESA 1024 x 768	68.68	85
3	VGA 640 x 480	31.469	60	13	VESA 1280 x 720	44.772	60
4	VESA 640 x 480	37.500	75	14	VESA 1280 x 768	47	60
5	VESA 640 x 480	43.269	85	15	VESA 1360 x 768	47.72	60
6	VESA 800 x 600	37.879	60	16	VESA 1366 x 768	47	60
7	VESA 800 x 600	46.875	75	17	VESA 1280 x 1024	63.981	60
8	VESA 800 x 600	53.674	85	18	VESA 1280 x 1024	79.98	75
9	MAC 832 x 624	49.725	75	19	VESA 1600 x 1200	75.00	60
10	VESA 1024 x 768	48.363	60				

RGB : Mode 1 ~ Mode 19 HDMI/DVI : Mode 1 ~ Mode 17

DTV Mode

	Component	RGB(DTV)	HDMI/DVI(DTV)
480i	0	x	x
576i	О	x	x
480p	О	О	o
576p	О	О	o
720p	О	О	o
1080i	0	0	o

Power Indicator

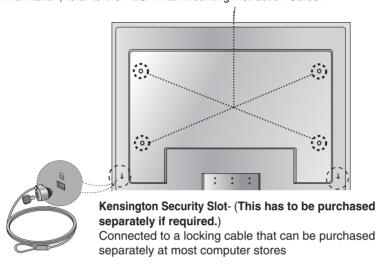
Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	-

NOTE

■ DTV/PC selection on RGB and HDMI/DVI inputs is available for PC resolutions: 640 X 480/60Hz, 1280 X 720/60Hz and DTV resolutions: 480p, 720p.

VESA wall mounting

Connected to another object (stand type and wall-mounted type.) This product accepts a VESA-compliant mounting interface pad.- (**This has to be purchased separately if required.**) For further information, refer to the VESA Wall Mounting Instruction Guide.



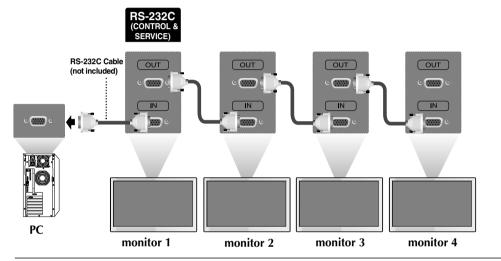
Controlling the Multiple Product

Use this method to connect several products to a single PC. You can control several products at a time by connecting them to a single PC.

Connecting the cable

Connect the RS-232C cable as shown in the picture.

* The RS-232C protocol is used for communication between the PC and product. You can turn the product on/off, select an input source or adjust the OSD menu from your PC.



RS-232C Configurations

7-Wire Co	nfigurations (Standard RS-23	32C cable)
	PC	Monitor	
RXD TXD GND DTR DSR RTS CTS	2	2 3 5 4 6 7 8	TXD RXD GND DSR DTR CTS RTS
	D-Sub 9 (Female)	D-Sub 9 (Male)	

3-Wi	re Configurati	ons (Not Stand	ard)
	PC	Monitor	
RXD TXD GND DTR DSR RTS CTS	2 • — 3 • — 5 • — 4 6 7 8	2 3 5 4 6 7 8	TXD RXD GND DSR DTR CTS RTS
	D-Sub 9 (Female)	D-Sub 9 (Male)	

Communication Parameter

▶ Baud Rate: 9600buadRate (UART)

▶ Data Length : 8bits▶ Parity Bit : None▶ Stop Bit : 1bit▶ Flow Control : None

▶ Communication Code : ASCII code

▶ Use a straight cable



Controlling the Multiple Product

Command Reference List

	COMMAND1	COMMAND2	DATA(Hexa)
01. Power	k	а	00H - 01H
02. Input Select	k	b	02H - 09H
03. Aspect Ratio	k	С	01H - 09H
04. Screen Mute	k	d	00H - 01H
05. Volume Mute	k	е	00H - 01H
06. Volume Control	k	f	00H - 64H
07. Contrast	k	g	00H - 64H
08. Brightness	k	h	00H - 64H
09. Color	k	i	00H - 64H
10. Tint	k	j	00H - 64H
11. Sharpness	k	k	00H - 64H
12. OSD Select	k	I	00H - 01H
13. Remote Lock/ key Lock	k	m	00H - 01H
14. Balance	k	t	00H - 64H
15. Color Temperature 16. Abnomal state	k	u	00H - 03H
	k	Z	FFH
17. ISM mode	J _.	р	00H - 08H
18. Auto configuration	J	u	01H
19. Key 20. Tile Mode	m d	c d	Key Code 00H - 44H
20. Tile Mode 21. Tile H Size	d d	~	00H - 44H 00H - 64H
21. Tile H Size	d d	g h	00H - 64H
23. Tile V Size	l d	i	00H - 10H
24. Elapsed time return	d d	i	FFH
25. Temperature value	l ď	n	FFH
26. Lamp fault check	d	p	FFH
·		·	

Controlling the Multiple Product



Transmission / Receiving Protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr]

- * [Command 1]: First command. (j, k, m, d)
- * [Command 2]: Second command.
- * [Set ID]: Set up the Set ID number of product.

range: 1~99. by setting '0', server can control all products.

* In case of operating with more than 2 sets using set ID as '0' at the same time, it should not be checked the ack message.

Because all sets will send the ack message, so it's impossible the check the whole ack messages.

* [DATA]: To transmit command data.

Transmit 'FF' data to read status of command.

* [Cr]: Carriage Return

ASCII code '0x0D'

* []: ASCII code Space (0x20)'

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

* The Product transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

* If there is error, it returns NG

Controlling the Multiple Product

Transmission / Receiving Protocol

01. Power(Command: a)

► To control Power On/Off of the Set.

Transmission

[k][a][][Set ID][][Data][Cr]

Data 0 : Power Off 1 : Power On

Acknowledgement

[a][][Set ID][][OK][Data][x]

▶To show the status of Power On/Off.

Transmission

[k][a][][Set ID][][FF][Cr]

Acknowledgement

[a][][Set ID][][OK][Data][x]

Data 0 : Power Off 1 : Power On

02. Input Select (Command : b) (Main Picture Input)

▶ To select input source for the Set.

You can also select an input source using the INPUT button on the remote control.

Transmission

[k][b][][Set ID][][Data][Cr]

Data 2 : AV 6 : RGB (DTV) 4 : Component 1 7 : RGB (PC) 5 : Component 2 8 : HDMI (DTV)

9: HDMI (PC)

<u>Acknowledgement</u>

[b][][Set ID][][OK][Data][x]

Data 2 : AV 6 : RGB (DTV) 4 : Component 1 7 : RGB (PC) 5 : Component 2 8 : HDMI (DTV)

9: HDMI (PC)

Controlling the Multiple Product

Transmission / Receiving Protocol

03. Aspect Ratio(Command : c) (Main picture format)

▶ To adjust the screen format.

You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the Screen menu.

Transmission

[k][c][][Set ID][][Data][Cr]

Data 1 : Normal Screen (4:3) 5 : Zoom2 2 : Wide Screen (16:9) 6 : Original

3: Horizon (Spectacle) 7:14:9

4 : Zoom1 8 : Full (Europe version only)

9:1:1 (PC)

<u>Acknowledgement</u>

[c][][Set ID][][OK][Data][x]

04. Screen Mute(Command : d)

▶ To select screen mute on/off.

Transmission

[k][d][][Set ID][][Data][Cr]

Data 0 : Screen mute off (Picture on)

1: Screen mute on (Picture off)

Acknowledgement

[d][][Set ID][][OK][Data][x]

Controlling the Multiple Product

Transmission / Receiving Protocol

05. Volume Mute(Command: e)

▶ To control On/Off of the Volume Mute.

Transmission

[k][e][][Set ID][][Data][Cr]

Data 0 : Volume Mute On (Volume Off) 1 : Volume Mute Off (Volume On)

Acknowledgement

[e][][Set ID][][OK][Data][x]

Data 0 : Volume Mute On (Volume Off) 1 : Volume Mute Off (Volume On)

06. Volume Control(Command: f)

► To adjust Volume .

Transmission

[k][f][][Set ID][][Data][Cr]

Data Min: 00H ~ Max: 64H (Hexadecimal code)

Acknowledgement

[f][][Set ID][][OK][Data][x]

Data Min: 00H ~ Max: 64H

Refer to 'Real data mapping' page A7.

Controlling the Multiple Product

Transmission / Receiving Protocol

07. Contrast(Command: g)

► To adjust screen contrast.

You can also adjust the contrast in the Picture menu.

Transmission

[k][g][][Set ID][][Data][Cr]

Data Min: 00H ~ Max: 64H

• Refer to 'Real data mapping' as shown below.

Acknowledgement

[g][][Set ID][][OK][Data][x]

* Real data mapping

0 : Step 0

:

A: Step 10

. F : Step 15

10 : Step 16

.

64: Step 100

08. Brightness(Command : h)

► To adjust screen brightness.

You can also adjust the brightness in the Picture menu.

Transmission

[k][h][][Set ID][][Data][Cr]

Data Min: 00H ~ Max: 64H

• Refer to 'Real data mapping' as shown below.

Acknowledgement

[h][][Set ID][][OK][Data][x]

* Real data mapping

0: Step

.

A: Step 10

:

F: Step 15

10: Step 16

:

64: Step 100

Controlling the Multiple Product

Transmission / Receiving Protocol

09. Color(Command : i) (Video only)

▶ To adjust the screen color.

You can also adjust the color in the Picture menu.

Transmission

[k][i][][Set ID][][Data][Cr]

Data Min: 00H ~ Max: 64H

(Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[i][][Set ID][][OK][Data][x]

Data Min: 00H ~ Max: 64H

10. Tint(Command : j) (Video only)

▶ To adjust the screen tint.

You can also adjust the tint in the Picture menu.

Transmission

[k][j][][Set ID][][Data][Cr]

Data Red: 00H ~ Green: 64H (Hexadecimal code)

• Refer to 'Real data mapping' page A7.

<u>Acknowledgement</u>

[j][][Set ID][][OK][Data][x]

Data Red: 00H ~ Green: 64H

* Tint Real data mapping

0: Step -50

.

64 : Step 50

Controlling the Multiple Product

Transmission / Receiving Protocol

11. Sharpness(Command: k) (Video only)

▶ To adjust the screen Sharpness.

You can also adjust the sharpness in the Picture menu.

Transmission

[k][k][][Set ID][][Data][Cr]

Data Min: 00H ~ Max: 64H (Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[k][][Set ID][][OK][Data][x]

Data Min: 00H ~ Max: 64H

12. OSD Select(Command: I)

▶ To control OSD on/off to the set.

Transmission

[k][I][][Set ID][][Data][Cr]

Data 0: OSD Off 1: OSD On

Acknowledgement

[I][][Set ID][][OK][Data][x]

Data 0 : OSD Off 1 : OSD On

13. Remote Lock /Key Lock (Command : m)

► To control Remote Lock on/off to the set.

This function, when controlling RS-232C, locks the remote control and the local keys.

Transmission

[k][m][][Set ID][][Data][Cr]

Data 0 : Off 1 : On

Acknowledgement

[m][][Set ID][][OK][Data][x]

Data 0 : Off 1 : On

Controlling the Multiple Product

Transmission / Receiving Protocol

14 Balance(Command:t)

▶ To adjust the sound balance.

Transmission

[k][t][][Set ID][][Data][Cr]

Data Min: 00H ~ Max: 64H

(Hexadecimal code)

• Refer to 'Real data mapping' page A7.

Acknowledgement

[t][][Set ID][][OK][Data][x]

Data Min: 00H ~ Max: 64H

* Balance : L50 ~ R50

15. Color Temperature (Command : u)

▶ To adjust the screen color temperature.

Transmission

[k][u][][Set ID][][Data][Cr]

Data 0: Normal

1 : Cool

2: Warm

3: User

<u>Acknowledgement</u>

[u][][Set ID][][OK][Data][x]

Data 0: Normal

1: Cool

2: Warm

3: User

Controlling the Multiple Product

Transmission / Receiving Protocol

16. Abnomal state (Command : z)

▶ Abnormal State : Used to Read the power off status when Stand-by mode.

Transmission

[k][z][][Set ID][][Data][Cr]

Data FF: Read

0: Normal (Power on and signal exist)

1: No signal (Power on)

2: Turn the monitor off by remote control

3: Turn the monitor off by sleep time function

4: Turn the monitor off by RS-232C function

6: AC down

8: Turn the monitor off by off time function

9: Turn the monitor off by auto off function

<u>Acknowledgement</u>

[z][][Set ID][][OK][Data][x]

17. ISM mode(Command: j p)

▶ Used to select the afterimage preventing function.

Transmission

[j][p][][Set ID][][Data][Cr]

Data 1: Inversion

2: Orbiter

4: White Wash

8: Normal

<u>Acknowledgement</u>

[p][][Set ID][][OK][Data][x]

Controlling the Multiple Product

Transmission / Receiving Protocol

18. Auto Configure(Command: j u)

► To adjust picture position and minimize image shaking automatically. it works only in RGB(PC) mode.

Transmission

[j][u][][Set ID][][Data][Cr]

Data 1: To set

Acknowledgement

[u][][Set ID][][OK][Data][x]

19. Key(Command : m c)

▶ To send IR remote key code.

Transmission

[m][c][][Set ID][][Data][Cr]

Data Key code: Refer to page A18.

<u>Acknowledgement</u>

[c][][Set ID][][OK][Data][x]

Controlling the Multiple Product

Transmission / Receiving Protocol

20. Tile Mode(Command : d d)

► Change a Tile Mode.

Transmission

[d][d][][Set ID][][Data][x]

Data	Description
00	Tile mode is off.
12	1 x 2 mode(column x row)
13	1 x 3 mode
14	1 x 4 mode
44	4 x 4 mode

^{*} The data can not be set to 0X or X0 except 00.

<u>Acknowledgement</u>

[d][][00][][OK/NG][Data][x]

Controlling the Multiple Product

Transmission / Receiving Protocol

21. Tile H Size(Command : d g)

▶To set the Horizontal size.

Transmission

[d][g][][Set ID][][Data][x]

Data Min: 00H ~ Max: 64H

Acknowledgement

[g][][Set ID][][OK/NG][Data][x]

22. Tile V Size(Command : d h)

▶ To set the Vertical size.

Transmission

[d][h][][Set ID][][Data][x]

Data Min: 00H ~ Max: 64H

<u>Acknowledgement</u>

[h][][Set ID][][OK/NG][Data][x]

Controlling the Multiple Product

Transmission / Receiving Protocol

23. Tile ID Set(Command : d i)

▶ To assign the Tile ID for Tiling function .

Transmission

[d][i][][Set ID][][Data][x]

Data Min: 00H ~ Max: 10H (Hexadecimal code)

Acknowledgement

[i][][Set ID][][OK/NG][Data][x]

24. Elapsed time return(Command : d I)

To read the elapsed time.

Transmission

[d][l][][Set ID][][Data][x]

* The data is always FF(in Hex).

<u>Acknowledgement</u>

[I][][Set ID][][OK/NG][Data][x]

* The data means used hours. (Hexadecimal code)

Controlling the Multiple Product



Transmission / Receiving Protocol

25. Temperature value (Command : d n)

▶ To read the inside temperature value.

Transmission

[d][n][][Set ID][][Data][x]

* The data is always FF(in Hex).

<u>Acknowledgement</u>

[n][][Set ID][][OK/NG][Data][x]

* The data is 1 byte long in Hexadecimal.

26. Lamp fault Check(Command : d p)

▶ To check lamp fault.

Transmission

[d][p][][Set ID][][Data][x]

* The data is always FF(in Hex).

<u>Acknowledgement</u>

[p][][Set ID][][OK/NG][Data][x]

Data 0 : Lamp Fault 1: Lamp OK

IR Codes

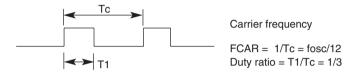
How to connect

▶ Connect your wired remote control to Remote Control port on the Product.

Remote Control IR Code

▶ Output waveform

single pulse, modulated with 37.917KHz signal at 455KHz

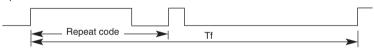


▶ Configuration of frame

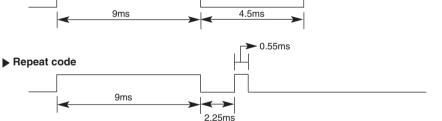
• 1st frame

Lead	Low custom code							High custom code						Data code						Data code													
	CO	C1	C2	СЗ	C4	C5	C6	C7	C0	C1	C2	СЗ	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7	ı

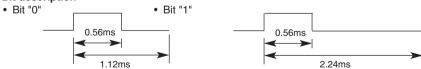
· Repeat frame



▶ Lead code



▶ Bit description



Frame interval: Tf

• The waveform is transmitted as long as a key is depressed.



IR Codes

Code(Hexa)	Function	Note
00	A	R/C Button
01	▼	R/C Button
02	VOL(▶)	R/C Button
03	VOL(◀)	R/C Button
08	POWER ON/OFF	PR/C Button (Power On/Off)
C4	POWER ON	Discrete IR Code(Only Power On)
C5	POWER OFF	Discrete IR Code(Only Power On)
09	MUTE	R/C Button
98	AV	R/C Button
0B	INPUT	R/C Button
0E	SLEEP	R/C Button
43	MENU	R/C Button
5B	EXIT	R/C Button
6E	PSM	R/C Button
44	SET	R/C Button
10	Number Key 0	R/C Button
11	Number Key 1	R/C Button
12	Number Key 2	R/C Button
13	Number Key 3	R/C Button
14	Number Key 4	R/C Button
15	Number Key 5	R/C Button
16	Number Key 6	R/C Button
17	Number Key 7	R/C Button
18	Number Key 8	R/C Button
19	Number Key 9	R/C Button
5A	AV	Discrete IR Code(Input AV Selection)
BF	COMPONENT1	Discrete IR Code(Input COMPONENT1 Selection)
D4	COMPONENT2	Discrete IR Code(Input COMPONENT2 Selection)
D5	RGB PC	Discrete IR Code(Input RGB PC Selection)
D7	RGB DTV	Discrete IR Code(Input RGB DTV Selection)
C6	HDMI/DVI	Discrete IR Code(Input HDMI/DVI Selection)
79	ARC	R/C Button
76	ARC (4:3)	Discrete IR Code(Only 4:3 mode)
77	ARC (16:9)	Discrete IR Code(Only 16:9 mode)
AF	ARC (ZOOM)	Discrete IR Code(Only ZOOM1, ZOOM2 mode)
99	AUTO CONFIC	Discrete IR Code

